WBLE-SL ► UECM3473-202401-EZZ ► Quizzes ► 202401UECM34730E3a ► Review of preview		
WBLE-SL P GECM347	773-202401-E22 P QUIZZES P 2024010ECM34730E34 P REVIEW OF PIEVIEW	Update this Quiz
	Info Results Preview Edit	
	202401UECM34730E3a	
	Start again	
	Review of preview	
	n Tuesday, 12 March 2024, 11:23 AM	
Completed on Time taken	n Tuesday, 12 March 2024, 11:23 AM n 15 sers	
Marks		
Grade	e 0 out of a maximum of 10 (0%)	
1 ⊌ Marks: 1	An automobile liability coverage is sold in three territories, A, B, and C. 49% of the business is sold in A, 28% in B, and 23% in C. Claim frequencies on this coverage are given in the following table: Number of Claims Territory 0 1 2 A 0.64 0.14 0.22 B 0.63 0.26 0.11 C 0.27 0.69 0.04 An insured selected at random had no claims in one period. Determine the probability of one claim from this insured in the next period	
	Answer: Make comment or override grade	
	Incorrect Correct answer: 0.2402 Marks for this submission: 0/1.	
2 E Marks: 1	An automobile liability coverage is sold in three cities, J, K, and L. 46% of the business is sold in J, 20% in K, and 34% in L. Claim frequencies on this coverage are given in the following table: Number of Claims City 0 1 2 3 0.61 0.21 0.18	
	An insured selected at random had no claims in the first period and two claims in the second period. Determine the expected number of claims from this insured in the next period	
	Answer:	
	Make comment or override grade	
	Incorrect	
	Correct answer: 0.5686 Marks for this submission: 0/1.	
	ויומוגס וטו נוווס סעטווווססוטוו. טן ב.	
3 👺	You are given:	
Marks: 1		
	 The annual number of claims on a given policy has a poisson distribution with parameter λ. 26% of the policies have λ = 1.3, 41% of the policies have λ = 2.1, and the remaining 33% have λ = 3.4. 	
	A randomly selected policy had 2 claims in Year 1. Calculate the Bayesian expected number of claims for the selected policy in Year2.	
	Answer:	

	X X
Make comment or or Incorrect Correct answer: 2.2	
	ubmission: 0/1.
45	Two pight cided dies A and B, are used to determine the number of claims for an incured. The faces of each die are marked with either 0 or 1, representing the number of claims for that incured for the year
4 ☑ Marks: 1	Two eight-sided dice, A and B, are used to determine the number of claims for an insured. The faces of each die are marked with either 0 or 1, representing the number of claims for that insured for the year. Die P(claims = 1) P(claims =
	Two spinners, X and Y, are used to determined claim cost. Spinner X has two areas marked 18 and c. Spinner Y has only one area marked 18. Spinner P(cost = 18) P(cost = c) X 1/2 1/2 Y 1 0
	To determine the losses for the year, a die is randomly selected from A and B and rolled. If a claim occurs, a spinner is randomly selected from X and Y. For subsequent years, the same die and spinner are used to determine losses. Losses for the first year are 18. Based upon the results of the first year, you determine that the expected losses for the second year are 19.0. Calculate c
	Answer:
	Make comment or override grade
	Incorrect Correct answer: 64.3539 Marks for this submission: 0/1.
5 👺	You are given the following information about six coins:
Marks: 1	Coin Probability of heads 1-4 0.62 5 0.33
	Determine $E(X_{5} S)$ using Bayesian analysis
	Answer:
	Make comment or override grade Incorrect
	Correct answer: 0.428707 Marks for this submission: 0/1.
6 ≥ Marks: 1	Claim size follows a single-parameter Pareto distribution with parameters α = 5 and θ. Over all insureds, θ has a uniform distribution on [1, 16]. An insured is selected at random submits 3 claims of sizes 5, 7, and 10. Determine the posterior mean.
	Answer:
	Make comment or override grade
	Incorrect Correct answer: 4.7059
	Marks for this submission: 0/1.
7 👺	The conditional distribution of a frequency model \$X\$, given the risk parameter Θ is
Marks: 1	$P(X = 0 \Theta = \theta) = 2\theta, P(X = 1 \Theta = \theta) = 2\theta, P(X = 2 \Theta = \theta) = 1-4\theta$ The parameter Θ is assumed to be uniformly distributed on the interval $[0, 1/4]$. Determine $P(X_2 = 0 X_1 = 0)$.
	Answer:
	Make comment or override grade
	Incorrect Correct answer: 0.333333

Losses are uniformly distributed on [0, 0]. 0 varies by insured uniformly over [5, 16]. For a randomly selected insured, one observation of loss size is less that 10.5, Calculate the probability that the next observation of loss size from the same insured is less than 10.5.

Answer:

Make comment or override grade
Incorrect
Correct answer: 0.816095
Marks for this submission: 0/1.

Marks for this submission: 0/1.

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